In the Claims

Please cancel claims 1-9 and 13 without prejudice to or disclaimer of the subject matter therein.

Please add the following new claims:

-- 16. An isolated polynucleotide comprising a nucleic acid encoding amino acids 2 to 127 of SEQ ID NO:2.

The isolated polynucleotide of claim 16, comprising nucleotides 15 to 392 of SEQ ID NO:1.

The isolated polynucleotide of claim 16, comprising a nucleic acid encoding amino acids 1 to 127 of SEQ ID NO:2.

The isolated polynucleotide of claim 18, comprising nucleotides 12 to 392 of SEQ ID NO:1.

5 26. The isolated polynucleotide of claim 16, which is DNA.

The isolated polynucleotide of claim 16, which is RNA.

The isolated polynucleotide of claim 16, further comprising a heterologous polynucleotide.

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The isolated polynucleotide of claim 22, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

9 24. A method of producing a vector that comprises inserting the isolated polynucleotide of claim 16 into a vector.

10 25. A vector comprising the isolated polynucleotide of claim 16.

The vector of claim 25, wherein said polynucleotide is operably associated with a heterologous regulatory sequence.

A host cell comprising the isolated polynucleotide of claim 16.

13 28. The host cell of claim 27, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

A method of producing a polypeptide that comprises culturing the host cell of claim 38 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

A composition comprising the isolated polynucleotide of claim 16 and a pharmaceutically acceptable carrier.

An isolated polynucleotide comprising a nucleic acid encoding the complete amino acid sequence encoded by the cDNA clone of ATCC Deposit No. 97856.

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- The isolated polynucleotide of claim 31, which is DNA.
- 1 8 38. The isolated polynucleotide of claim 31, which is RNA.
- 1934. The isolated polynucleotide of claim 31, further comprising a heterologous polynucleotide.
- 75. The isolated polynucleotide of claim 34, wherein said heterologous polynucleotide encodes a heterologous polypeptide.
- 2/36. A method of producing a vector that comprises inserting the isolated polynucleotide of claim 31 into a vector.
 - A vector comprising the isolated polynucleotide of claim 31.
- The vector of claim 37, wherein said polynucleotide is operably associated with a heterologous regulatory sequence.
 - A host cell comprising the isolated polynucleotide of claim 31.
- The host cell of claim 39, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

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A method of producing a polypeptide that comprises culturing the host cell of claim 40 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

A composition comprising the isolated polynucleotide of claim 31 and a pharmaceutically acceptable carrier.

43. An isolated polynucleotide comprising 50 contiguous nucleotides of the coding region of SEQ ID NO:1 or the complement thereof.

44. The isolated polynucleotide of claim 43, comprising 100 contiguous nucleotides of the coding region of SEQ ID NO:1 or the complement thereof.

45. The isolated polynucleotide of claim 44, comprising 250 contiguous nucleotides of the coding region of SEQ ID NQ:1 or the complement thereof.

46. The isolated polynucleotide of claim 43, which is DNA.

47. The isolated polynucleotide of claim 43, which is RNA.

48. The isolated polynucleotide of claim 43, further comprising a heterologous polynucleotide.

49. The isolated polynucleotide of claim 48, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

50. A method of producing a vector that comprises inserting the isolated polynucleotide of claim 43 into a vector.

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- 51. A vector comprising the isolated polynucleotide of claim 43.
- 52. The vector of claim 51 wherein said polynucleotide is operably associated with a heterologous regulatory sequence.

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53. A host cell comprising the isolated polynucleotide of claim 43.

54. The host cell of claim 53, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

- 55. A method of producing a polypeptide that comprises culturing the host cell of claim 54 under conditions such that said polypeptide is expressed, and recovering said polypeptide.
- 56. A composition comprising the isolated polynucleotide of claim 43 and a pharmaceutically acceptable carrier.
- 57. An isolated polynucleotide, comprising a nucleic acid which encodes an amino acid sequence selected from the group consisting of:
 - (a) amino acids 94 to 107 of SEQ ID NO:2; and
 - (b) amino acids 120 to 127 of SEQ ID NO:2.

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58. The isolated polynucleotide of claim 57, wherein said amino acid sequence

is (a).
is (b).

- 59. The isolated polynucleotide of claim 57, wherein said amino acid sequence
- 39. The isolated polynucleotide of claim 51, which is DNA.
- The isolated polynucleotide of claim 37, which is RNA.
- The isolated polynucleotide of claim 57, further comprising a heterologous polynucleotide.
- The isolated polynucleotide of claim 62, wherein said heterologous polynucleotide encodes a heterologous polypeptide.
- A method of producing a vector that comprises inserting the isolated polynucleotide of claim 57 into a vector.
 - 4 65. A vector comprising the isolated polynucleotide of claim 57.
- The vector of claim 65, wherein said polynucleotide is operably associated with a heterologous regulatory sequence.
 - A host cell comprising the isolated polynucleotide of claim 5%.

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The host cell of claim 67, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

A method of producing a polypeptide that comprises culturing the host cell of claim 68 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

70. A composition comprising the isolated polynucleotide of claim 51 and a pharmaceutically acceptable carrier.

71. An isolated polynucleotide molecule comprising a first nucleic acid 95% or more identical to a reference nucleic acid encoding an amino acid sequence selected from the group consisting of:

- (a) amino acids 1 to 127 of SEQ ID NO:2;
- (b) amino acids 2 to 127 of SEQ ID NO:2; and
- (c) the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97856;

wherein percent identity is calculated using BESTFIT with the parameters set such that percentage of identity is calculated over the full length of the reference nucleic acid and that gaps in homology of up to 5% of the total number of nucleotides in the reference nucleic acid are allowed.

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72. An isolated polynucleotide comprising a nucleic acid encoding an amino acid sequence, wherein, except for one to thirty conservative amino acid substitutions, said amino acid sequence is selected from the group consisting of:

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- (a) amino acids 1 to 127 of SEQ ID NO:2;
- (b) amino acids 2 to 127 of SEQ ID NO:2; and
- (c) the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97856.

The isolated polynucleotide of claim 72, wherein the number of substitutions is not more than 10.

The isolated polynucleotide of claim 73, wherein the number of substitutions is not more than 5.

The isolated polynucleotide of claim 74, wherein the number of substitutions is not more than 3.

76. An isolated polynucleotide comprising a nucleic acid encoding an amino acid sequence 95% or more identical to a reference amino acid sequence selected from the group consisting of:

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- (a) amino acids 1 to 127 of SEQ ID NO:2;
- (b) amino acids 2 to 127 of SEQ ID NO:2; and
- (c) the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 97856;

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wherein percent identity is calculated using BESTFIT with the parameters set such that percentage of identity is calculated over the full length of the reference amino acid sequence and that gaps in homology of up to 5% of the total number of amino acids in the reference nucleic acid are allowed.

77. An isolated polynucleotide comprising a nucleic acid which is 95% or more identical to a reference nucleic acid, wherein said reference nucleic acid is selected from the group consisting of:

- (a) nucleotides 15 to 392 of SEQ ID NO:1; and
- (b) nucleotides 18 to 392 of SEQ ID NO:1;

wherein percent identity is calculated using RESTFIT with the parameters set such that percentage of identity is calculated over the full length of the reference nucleic acid and that gaps in homology of up to 5% of the total number of nucleotides in the reference nucleic acid are allowed.

- 78. An isolated polynucleotide comprising a first nucleic acid which hybridizes (i) at 42°C in a solution consisting of 50% formamide, 5x SSC, 50 mM sodium phosphate, 5x Denhardt's solution, 10% dextran sulfate, and 20 μg/ml denatured, sheared salmon sperm DNA; (ii) followed by washing in a solution consisting of 0.1x SSC at 65°C; to a second nucleic acid having the nucleotide sequence of the coding region of SEQ ID NO:1 or the complement thereof; wherein said first nucleic acid is 50 or more nucleotides long.
- 79. An isolated polynucleotide comprising 30 contiguous nucleotides of SEQ ID NO:12.--

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